

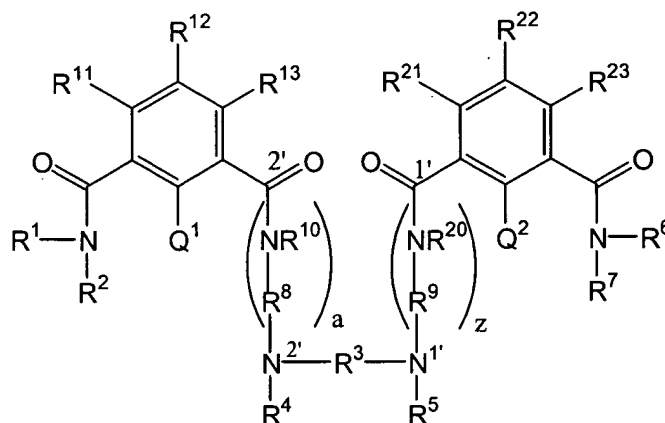
LISTING OF CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application. Please amend the application by amending claims 5, 6, 8, 10-19, 21, 25-27, 30, 36, 37, 46, 48-49, and 61 and canceling claims 9, 10 and 47.

1 1-4. (Cancelled)

1 5. (Presently Amended) A compound having a structure according to

2 Formula I:



(I)

3 wherein,

4 $R^1, R^2, R^4, R^5, R^6, R^7, R^{10}$ and R^{20} are members independently selected from
 5 the group consisting of H, alkyl, ~~and substituted alkyl groups, and polyether,~~

6 wherein, two or more of R^1, R^2, R^4, R^5, R^6 , and R^7 ~~when R^3 is~~

7 ~~substituted alkyl, a substituent of R^3~~ are optionally adjoined by at least one
 8 linker moiety to form at least one ring;

9 R^3, R^8 and R^9 are members independently selected from the group consisting of alkyl,
 10 substituted alkyl, aryl, ~~and substituted aryl groups, and polyether;~~

11 $R^{11}, R^{12}, R^{13}, R^{21}, R^{22}$ and R^{23} are members independently selected from alkyl,
 12 substituted alkyl, H, $-NR^{14}R^{15}$, $-NO_2$, $-OR^{16}$, $-COOR^{17}$,

13 wherein, R^{14}, R^{15}, R^{16} and R^{17} are members independently selected
 14 from the group consisting of H, alkyl and substituted alkyl, wherein R^{12} can
 15 optionally form a ring with R^{11}, R^{13} or both, and R^{22} can optionally form a
 16

ring with R^{21} , R^{23} or both, said rings being members independently selected from the group of ring systems consisting of cyclic alkyl, substituted cyclic alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, ~~heterocyclyl~~ and ~~saturated~~ heterocyclyl ring systems; and

Q^1 is $—OR^{18}$;

Q^2 is $—OR^{19}$,

wherein R^{18} and R^{19} are members independently selected from H, an enzymatically labile group, a hydrolytically labile group and a single negative charge;

a is 0 or 1, with the proviso that when a is 0, $N^{2'}$ is covalently attached directly to carbonyl group 2'.

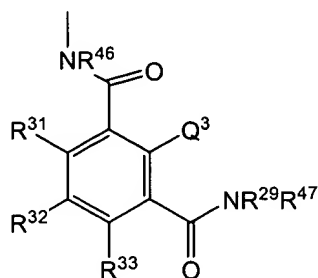
z is 0 or 1, with the proviso that when z is 0, $N^{1'}$ is covalently attached directly to carbonyl group 1'.

6. (Presently Amended) The compound according to claim ~~4~~ 5, wherein z is 0.

7. (Original) The compound according to claim 5, wherein R^3 is a linear C_1 - C_6 hydrocarbon.

8. (Presently Amended) The compound according to claim 6, wherein R^8 is $(CH_2)_p$;
 R^4 is an alkyl group substituted with a moiety having a structure according to

Formula II:



(II)

wherein,

R^{29} , R^{46} and R^{47} are members independently selected from the group consisting of H, alkyl, ~~and substituted alkyl, and polyether, groups~~, wherein, two or more of R^2 , R^7 and R^{29} are optionally adjoined by at least one linker moiety to form at least one ring;

R^{31} , R^{32} and R^{33} are members independently selected from alkyl, substituted alkyl, H, $—NR^{24}R^{25}$, $—NO_2$, $—OR^{26}$, $—COOR^{27}$,

wherein, R^{24} , R^{25} , R^{26} and R^{27} are members independently selected from the group consisting of H, alkyl and substituted alkyl, wherein R^{32} can optionally form a ring with R^{31} , R^{33} or both, said rings being members independently selected from the group of ring systems consisting of cyclic alkyl, substituted cyclic alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, ~~heterocycl~~ and ~~saturated~~ heterocycl ring systems;

R^3 is $(CH_2)_x$;

Q^3 is $—OR^{28}$, wherein R^{28} is a member selected from H, an enzymatically labile group, a hydrolytically labile group and a single negative charge;

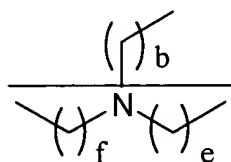
P and X are members independently selected from the group consisting of the integers from 1 to 5, inclusive;

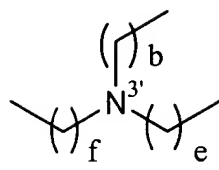
and z is 0.

9. (Cancelled)

10. (Cancelled)

11. (Presently Amended) The compound according to claim 10 ~~8~~, wherein R^2 , R^6 and R^{29} are adjoined by a single linker moiety, wherein said linker moiety has a structure according to Formula III :



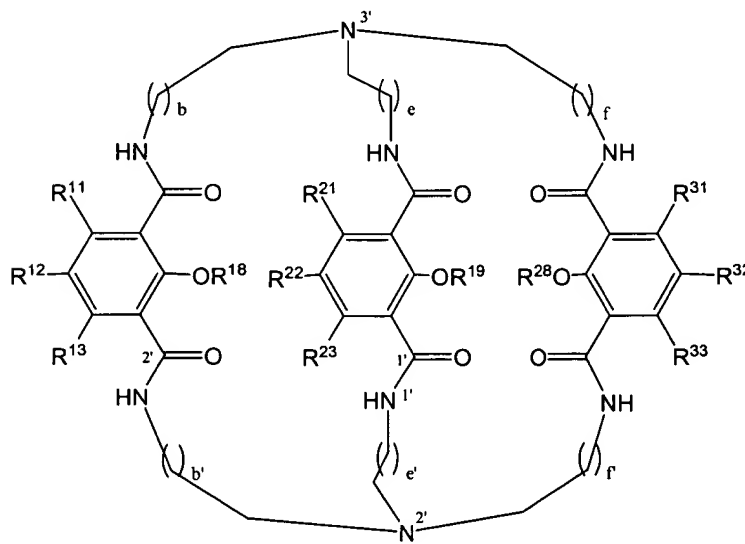
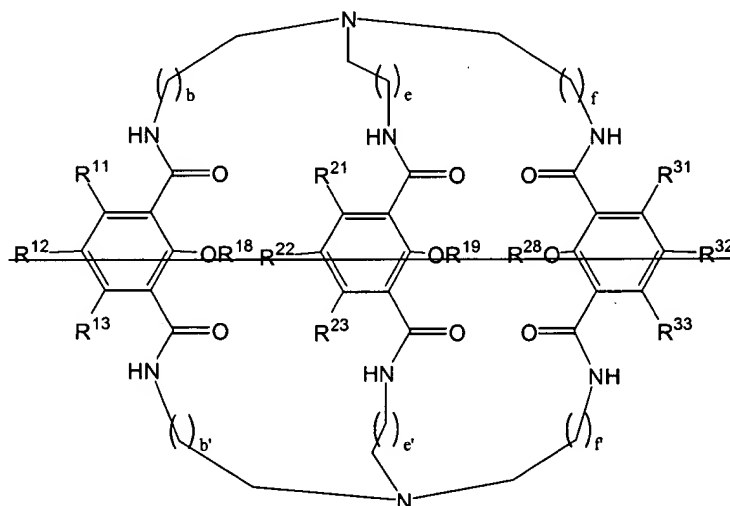


(III)

wherein,

b, e and f are members independently selected from the group consisting of the integers from 1 to 5, inclusive.

12. (Presently Amended) A compound according to claim 11, having a structure according to Formula IV:

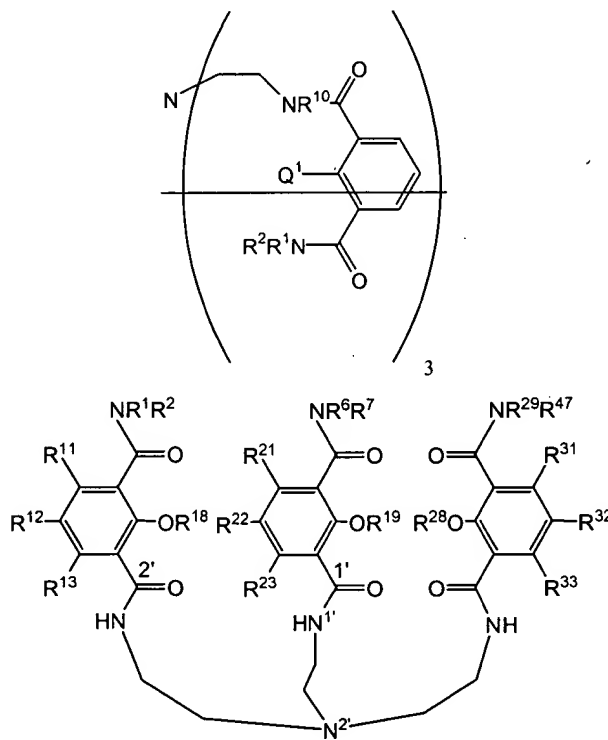


(IV)

wherein,

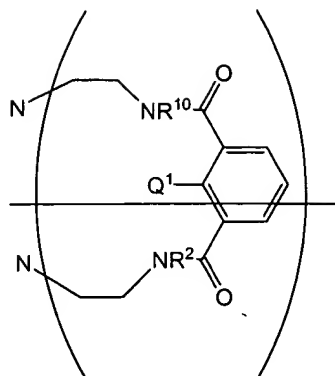
b, b', e, e', f and f' are members independently selected from the group
consisting of the integers from 1 to 5, inclusive.

13. (Presently Amended) A compound according to claim 8, having a
structure according to Formula V:



(V).

14. (Presently Amended) The compound according to claim ~~13~~12,
wherein b, b', e, e', f and f' are ~~1~~ having a structure according to Formula VI:



(VI).

15. (Presently Amended) The compound according to claim 8 wherein, $R^1, R^2, R^3, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{29}, R^{46}$ and R^{47} are members independently selected from the group consisting of H, C_1 to C_{10} alkyl and C_1 to C_{10} substituted alkyl; and

R^3 is a member independently selected from the group consisting of C_1 to C_{10} alkyl and C_1 to C_{10} substituted alkyl.

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X=1-5
 $R^3 = (CH_2)_x$

16. (Presently Amended) The compound according to claim 15 wherein, $R^1, R^2, R^3, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{29}, R^{46}$ and R^{47} are members independently selected from the group consisting of H, C_2 to C_6 alkyl and C_2 to C_6 substituted alkyl; and

R^3 is a member selected from the group consisting of C_2 to C_6 alkyl and C_2 to C_6 substituted alkyl.

17. (Presently Amended) The compound according to claim 8, wherein $R^1, R^2, R^3, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{29}, R^{46}$ and R^{47} are members independently selected from the group consisting of H, aryl, substituted aryl and combinations thereof; and

R^3 is a member selected from the group consisting of aryl, substituted aryl and combinations thereof.

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18. (Presently Amended) The compound according to claim 8, wherein $R^1, R^2, R^3, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{29}, R^{46}$ and R^{47} are members independently selected from the group consisting of H and alkyl substituted with polycyclic aryl groups; and

R^3 is an alkyl substituted with polycyclic aryl groups.

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1 **19.** (Presently Amended) The compound according to claim 8, wherein a
2 member selected from the group consisting of R^1 , R^2 , R^5 , R^6 , R^7 , ~~R^8~~ , ~~R^9~~ , R^{10} , R^{29} , R^{46} and R^{47}
3 and combinations thereof is a primary alkyl amine.

1 **20.** (Original) The compound according to claim 19, wherein said primary
2 alkyl amine is a C_1 to C_{10} alkyl chain bearing an amine moiety at the ω -position.

1 **21.** (Presently Amended) The compound according to claim 20, wherein
2 said primary alkyl amine as is a C_2 to C_6 alkyl chain bearing an amine moiety at the ω -
3 position.

1 **22.** (Original) The compound according to claim 8, wherein a member
2 selected from the group consisting of R^1 , R^2 , R^3 , R^5 , R^6 , R^7 , R^8 , R^9 , R^{10} , R^{29} , R^{46} and R^{47} and
3 combinations thereof is a polyether.

1 **23.** (Original) The compound according to claim 22, wherein said
2 polyether is a member selected from ethylene glycol, ethylene glycol oligomers and
3 combinations thereof, wherein said polyether has a molecular weight of from about 60
4 daltons to about 10,000 daltons.

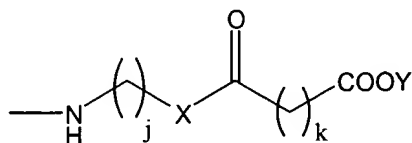
1 **24.** (Original) The compound according to claim 23, wherein said
2 polyether has a molecular weight of from about 100 daltons to about 1,000 daltons.

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1 **25.** (Presently Amended) The compound according to claim 8, wherein a
2 member selected from the group consisting of R^1 , R^2 , R^3 , R^5 , R^6 , R^7 , ~~R^8~~ , ~~R^9~~ , R^{10} , R^{29} , R^{46} and
3 R^{47} comprise a reactive group for conjugating said compound to a member selected from the
4 group consisting of molecules and surfaces.

1 **26.** (Presently Amended) The compound according to claim 8, wherein
2 R^1 , R^2 , ~~R^3~~ , R^5 , R^6 , R^7 , ~~R^8~~ , ~~R^9~~ , R^{10} , R^{29} , R^{46} and R^{47} and combinations thereof are members

selected from ω -carboxyl alkyl groups, ω -carboxyl substituted alkyl groups and combinations thereof.

27. (Presently Amended) The compound according to claim 26, wherein said ω -carboxyl substituted alkyl group has a structure according to Formula VII:



wherein,

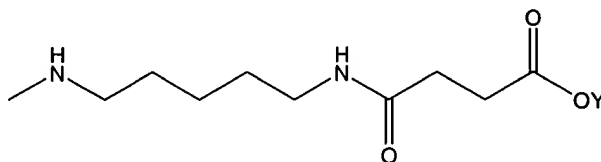
X is a member selected from O, S and NR^{50} , wherein

R^{50} is a member selected from H, alkyl and substituted alkyl;

Y is a member selected from H and a single negative charge; and

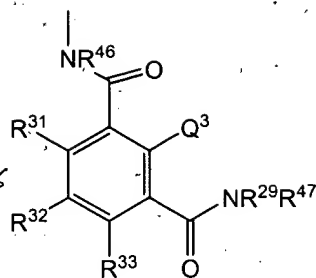
j ~~an~~ and k are members independently selected from the group consisting of integers from 1 to 18.

28. (Original) The compound according to claim 27, wherein said ω -carboxyl substituted alkyl group has a structure according to Formula VIII:



29. (Original) The compound according to claim 8, wherein R^1 , R^2 , R^5 , R^6 , R^7 , R^{10} , R^{29} , R^{46} and R^{47} are H.

30. (Presently Amended) The compound according to claim 5, wherein R^4 is an alkyl group substituted with a group having a structure according to Formula II:



(II)

wherein,

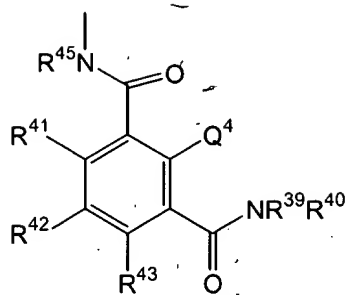
R^{29} , R^{46} and R^{47} are members independently selected from the group consisting of H, alkyl, substituted alkyl, and polyether, wherein, two or more of R^1 , R^6 and R^{29} are optionally adjoined by at least one linker moiety to form at least one ring;

R^{31} , R^{32} and R^{33} are members independently selected from alkyl, substituted alkyl, H, $-NR^{24}R^{25}$, $-NO_2$, $-OR^{26}$, $-COOR^{27}$,

wherein, R^{24} , R^{25} , R^{26} and R^{27} are members independently selected from the group consisting of H, alkyl and substituted alkyl, wherein R^{32} can optionally form a ring with R^{31} , R^{33} or both, said rings being members independently selected from the group of ring systems consisting of cyclic alkyl, substituted cyclic alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, and heterocyclyl ring systems; and

Q^3 is $-OR^{28}$, wherein R^{28} is a member selected from H, an enzymatically labile group, a hydrolytically labile group and a single negative charge; and

R^5 is an alkyl group substituted with a moiety having a structure according to Formula IX:



(IX)

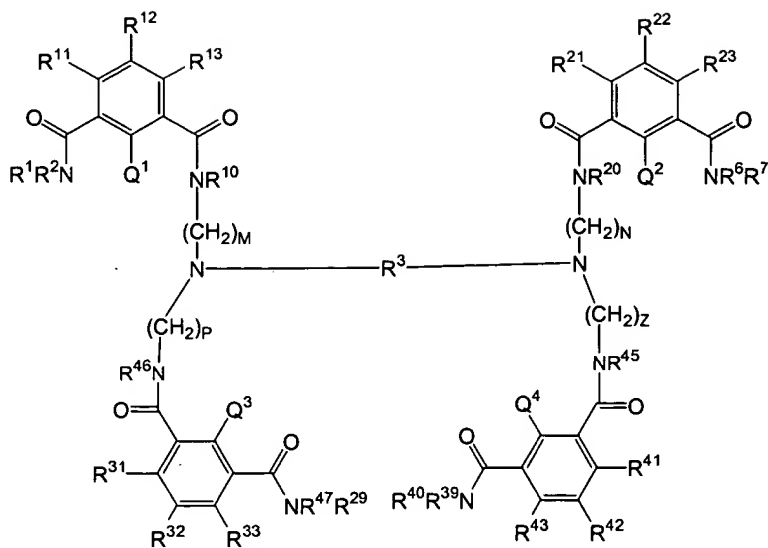
wherein,

R^{39} , R^{40} and R^{45} are members independently selected from alkyl, ~~and~~ substituted alkyl, and polyether groups; and wherein, two or more of R^1 , R^6 and R^{39} are optionally adjoined by at least one linker moiety to form at least one ring;

R^{41} , R^{42} and R^{43} are members independently selected from alkyl, substituted alkyl, H, $-NR^{34}R^{35}$, $-NO_2$, $-OR^{36}$, $-COOR^{37}$, wherein, R^{34} , R^{35} , R^{36} and R^{37} are members independently selected from the group consisting of H, alkyl and substituted alkyl, wherein R^{42} can optionally form a ring with R^{41} , R^{43} or both, said rings being members independently selected from the group of ring systems consisting of cyclic alkyl, substituted cyclic alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, ~~heterocyclyl~~ and ~~saturated~~ heterocyclyl ring systems; and

Q^4 is $-OR^{38}$, respectively, wherein, R^{38} is a member selected from is a member selected from H and a single negative charge.

31. (Original) A compound according to claim 30, having a structure according to Formula X:



(X)

wherein,

M, N, P and Z are members independently selected from the group consisting of the integers between 1 and 5, inclusive.

32. (Original) The compound according to claim 31, wherein, $R^1, R^2, R^3, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{20}, R^{29}, R^{39}, R^{40}, R^{45}, R^{46}$ and R^{47} are members independently selected from the group consisting of C_1 to C_{10} alkyl and C_1 to C_{10} substituted alkyl.

33. (Original) The compound according to claim 32 wherein, $R^1, R^2, R^3, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{20}, R^{29}, R^{39}, R^{40}, R^{45}, R^{46}$ and R^{47} are members independently selected from the group consisting of C_2 to C_6 alkyl and C_2 to C_6 substituted alkyl.

34. (Original) The compound according to claim 31, wherein $R^1, R^2, R^3, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{20}, R^{29}, R^{39}, R^{40}, R^{45}, R^{46}$ and R^{47} are members independently selected from the group consisting of aryl, substituted aryl and combinations thereof.

35. (Original) The compound according to claim 31, wherein $R^1, R^2, R^3, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{20}, R^{29}, R^{39}, R^{40}, R^{45}, R^{46}$ and R^{47} are members independently selected from the group consisting of alkyl substituted with polycyclic aryl groups.

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1 **36.** (Presently Amended) The compound according to claim 31, wherein a
2 member selected from the group consisting of R^1 , R^2 , R^5 , R^6 , R^7 , R^8 , R^9 , R^{10} , R^{20} , R^{29} , R^{39} ,
3 R^{40} , R^{45} , R^{46} and R^{47} and combinations thereof is a primary alkyl amine.

1 **37.** (Presently Amended) The compound according to claim ~~34~~ 36,
2 wherein said primary alkyl amine as is a C_1 to C_{10} alkyl chain bearing an amine moiety at the
3 ω -position.

1 **38.** (Original) The compound according to claim 37, wherein said primary
2 alkyl amine as a C_2 to C_6 alkyl chain bearing an amine moiety at the ω -position.

1 **39.** (Original) The compound according to claim 31, wherein a member
2 selected from the group consisting of R^1 , R^2 , R^6 , R^7 , R^{10} , R^{20} , R^{29} , R^{39} , R^{40} , R^{45} , R^{46} and R^{47}
3 and combinations thereof is a polyether.

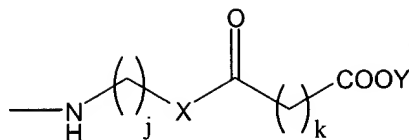
1 **40.** (Original) The compound according to claim 39, wherein said
2 polyether is a member selected from ethylene glycol, ethylene glycol oligomers and
3 combinations thereof, wherein said polyether has a molecular weight of from about 60
4 daltons to about 10,000 daltons.

1 **41.** (Original) The compound according to claim 39, wherein said
2 polyether has a molecular weight of from about 100 daltons to about 1,000 daltons.

1 **42.** (Original) The compound according to claim 31, wherein R^1 , R^2 , R^6 ,
2 R^7 , R^{10} , R^{20} , R^{29} , R^{39} , R^{40} , R^{45} , R^{46} and R^{47} and combinations thereof are members selected
3 from ω -carboxyl alkyl groups, ω -carboxyl substituted alkyl groups and combinations thereof.

1 **43.** (Original) The compound according to claim 42, wherein said ω -
2 carboxyl substituted alkyl group has a structure according to Formula VII:

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(VII)

wherein,

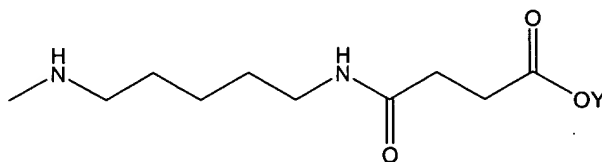
X is a member selected from O, S and NR^{50} , wherein

R^{50} is a member selected from H, alkyl and substituted alkyl;

Y is a member selected from H and a single negative charge; and

j and k are members independently selected from the group consisting of integers from 1 to 18.

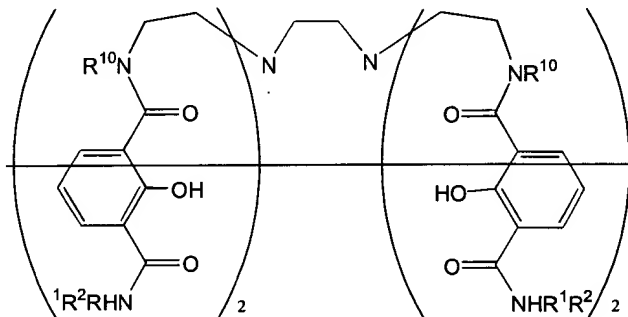
44. (Original) The compound according to claim 43, wherein said ω -carboxyl substituted alkyl group has a structure according to Formula VIII:



(VIII).

45. (Original) The compound according to claim 31, wherein R^1 , R^2 , R^6 , R^7 , R^{10} , R^{20} , R^{29} , R^{39} , R^{40} , R^{45} , R^{46} and R^{47} are H.

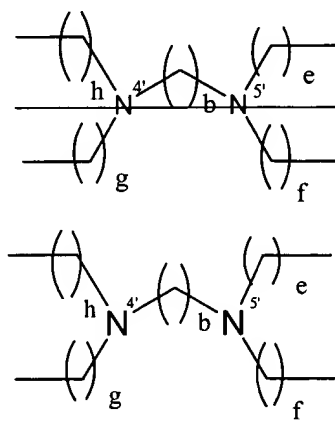
46. (Presently Amended) A compound according to claim 31, wherein R^3 is $-(\text{CH}_2)_2-$ having a structure according to Formula XI:



(XI).

47. (Cancelled)

48. (Presently Amended) The compound according to claim 47 30,
 wherein R^1 , R^6 , R^{29} and R^{39} are adjoined by a single linker moiety, wherein said single linker
 moiety has a structure according to Formula XII:

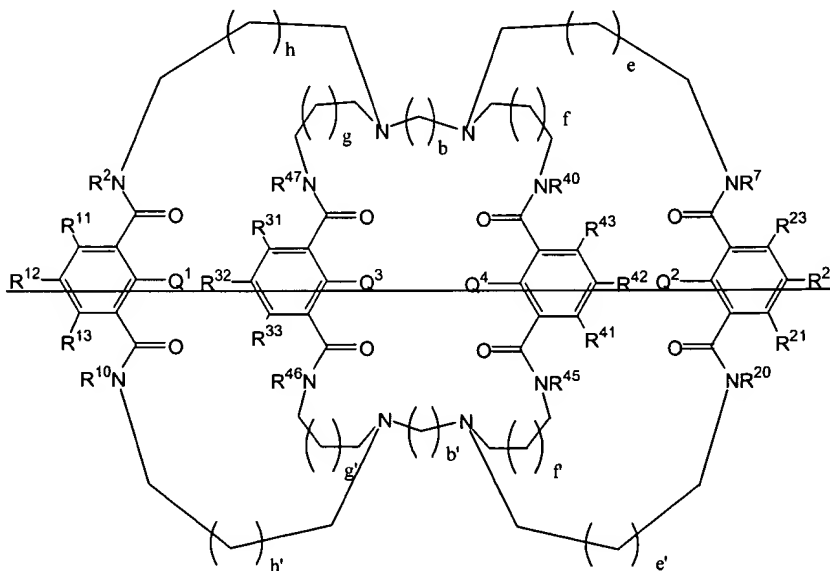


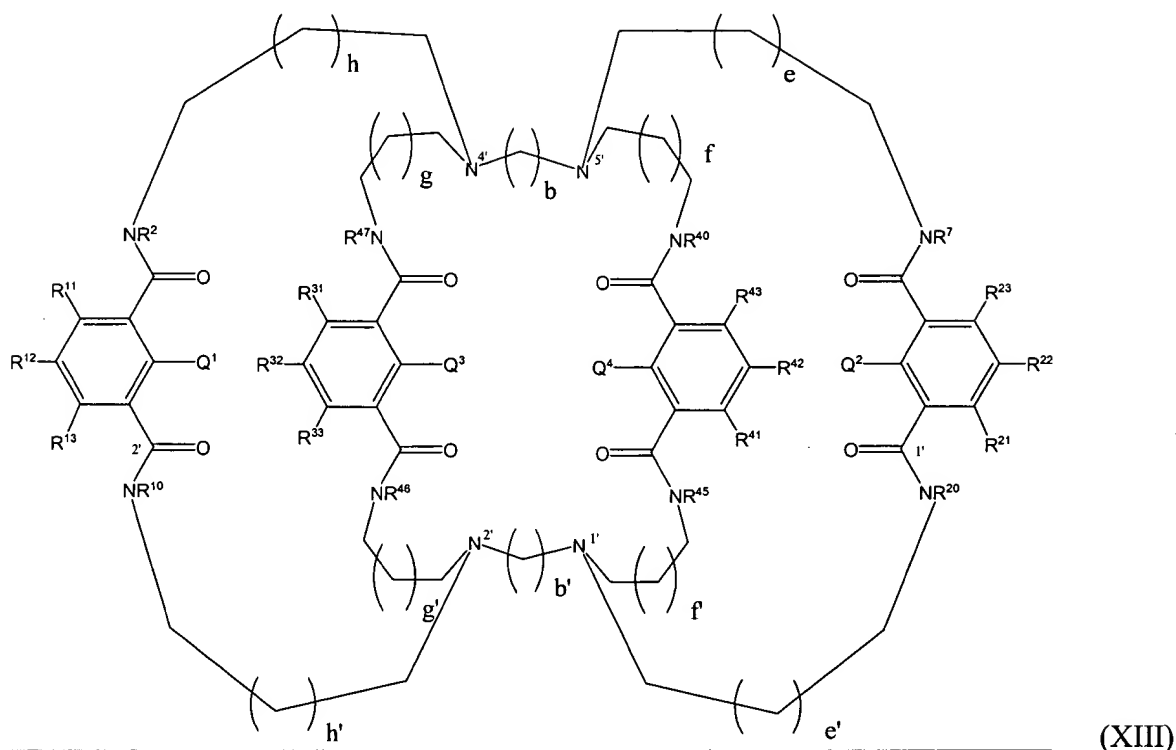
(XII)

wherein,

b , e , f , g and h are members independently selected from the numbers between 1
 and 5, inclusive.

49. (Presently Amended) A compound according to claim 48, having a
 structure according to Formula XIII:





wherein,

$R^2, R^7, R^{10}, R^{20}, R^{40}, R^{45}, R^{46}$, and R^{47} are members independently selected from the group consisting of H, alkyl, and substituted alkyl;

$R^{11}, R^{12}, R^{13}, R^{21}, R^{22}, R^{23}, R^{31}, R^{32}, R^{33}, R^{41}, R^{42}$ and R^{43} are members independently selected from alkyl, substituted alkyl, H, $-NR^{10}R^{11}$, $-NO_2$, $-OR^{12}$, $-COOR^{13}$, or two or more of R^5, R^6 and R^7 are joined to form a ring system, which is a member selected from cyclic alkyl, substituted cyclic alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocyclyl and saturated heterocyclyl systems;

Q^1, Q^2, Q^3 and Q^4 are $OR^{18}, OR^{19}, OR^{28}, OR^{38}$, respectively, wherein, R^{18}, R^{19}, R^{28} and R^{38} are members independently selected from H, and a single negative charge;

b and b' are members independently selected from the group consisting of the integers from 1 to 5, inclusive; and

19 e, e', f, f', g, g', h and h' are members independently selected from the group
20 consisting of numbers from 0 to 3.

1 50. (Original) The compound according to claim 49 wherein, R², R⁷, R¹⁰,
2 R²⁰, R⁴⁰, R⁴⁵, R⁴⁶, and R⁴⁷ are members independently selected from the group consisting of
3 C₁ to C₁₀ alkyl and C₁ to C₁₀ substituted alkyl.

1 51. (Original) The compound according to claim 50 wherein, R², R⁷, R¹⁰,
2 R²⁰, R⁴⁰, R⁴⁵, R⁴⁶, and R⁴⁷ are members independently selected from the group consisting of
3 C₂ to C₆ alkyl and C₂ to C₆ substituted alkyl.

1 52. (Original) The compound according to claim 49, wherein R², R⁷, R¹⁰,
2 R²⁰, R⁴⁰, R⁴⁵, R⁴⁶, and R⁴⁷ are members independently selected from the group consisting of
3 aryl, substituted aryl and combinations thereof.

1 53. (Original) The compound according to claim 52, wherein R², R⁷, R¹⁰,
2 R²⁰, R⁴⁰, R⁴⁵, R⁴⁶, and R⁴⁷ are members independently selected from the group consisting of
3 alkyl substituted with polycyclic aryl groups.

1 54. (Original) The compound according to claim 49, wherein a member
2 selected from the group consisting of R², R⁷, R¹⁰, R²⁰, R⁴⁰, R⁴⁵, R⁴⁶, and R⁴⁷ and
3 combinations thereof is a primary alkyl amine.

1 55. (Original) The compound according to claim 54, wherein said primary
2 alkyl amine as a C₁ to C₁₀ alkyl chain bearing an amine moiety at the ω-position.

b1 1 56. (Original) The compound according to claim 55, wherein said primary
2 alkyl amine as a C₂ to C₆ alkyl chain bearing an amine moiety at the ω-position.

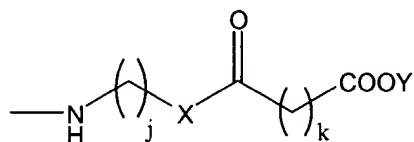
1 57. (Original) The compound according to claim 49, wherein a member
2 selected from the group consisting of R², R⁷, R¹⁰, R²⁰, R⁴⁰, R⁴⁵, R⁴⁶, and R⁴⁷ and
3 combinations thereof is a polyether.

1 **58.** (Original) The compound according to claim 57, wherein said
2 polyether is a member selected from ethylene glycol, ethylene glycol oligomers and
3 combinations thereof, wherein said polyether has a molecular weight of from about 60
4 daltons to about 10,000 daltons.

1 **59.** (Original) The compound according to claim 58, wherein said
2 polyether has a molecular weight of from about 100 daltons to about 1,000 daltons.

1 **60.** (Original) The compound according to claim 49, wherein R^2 , R^7 , R^{10} ,
2 R^{20} , R^{40} , R^{45} , R^{46} , and R^{47} and combinations thereof are members selected from ω -carboxyl
3 alkyl groups, ω -carboxyl substituted alkyl groups and combinations thereof.

1 **61.** (Presently Amended) The compound according to claim 60, wherein
2 said ω -carboxyl substituted alkyl group has a structure according to Formula VII:



(VII)

4 wherein,

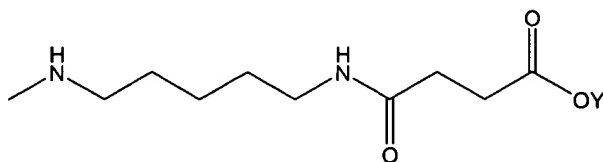
5 X is a member selected from O, S and NR^{50} , wherein

6 R^{50} is a member selected from H, alkyl and substituted alkyl;

7 Y is a member selected from H and a single negative charge; and

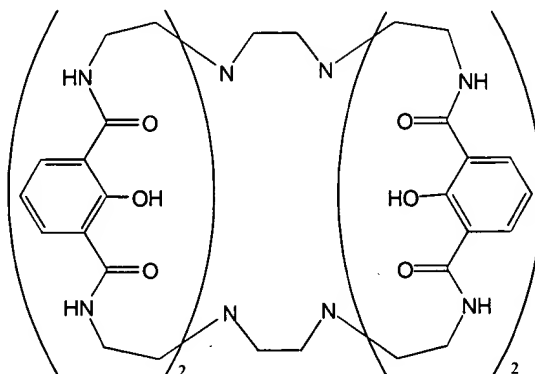
8 j ~~an~~ and k are members independently selected from the group consisting of
9 integers from 1 to 18.

1 **62.** (Original) The compound according to claim 61, wherein said ω -
2 carboxyl substituted alkyl group has a structure according to Formula VIII:



(VIII).

- 1 **63.** (Previously Amended) The compound according to claim 49, having a
2 structure according to Formula XIV:



(XIV).

- 1 **64-123.** (Cancelled)